

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640203

Luminaire Tested: GWS-SA5D-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21752.2 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

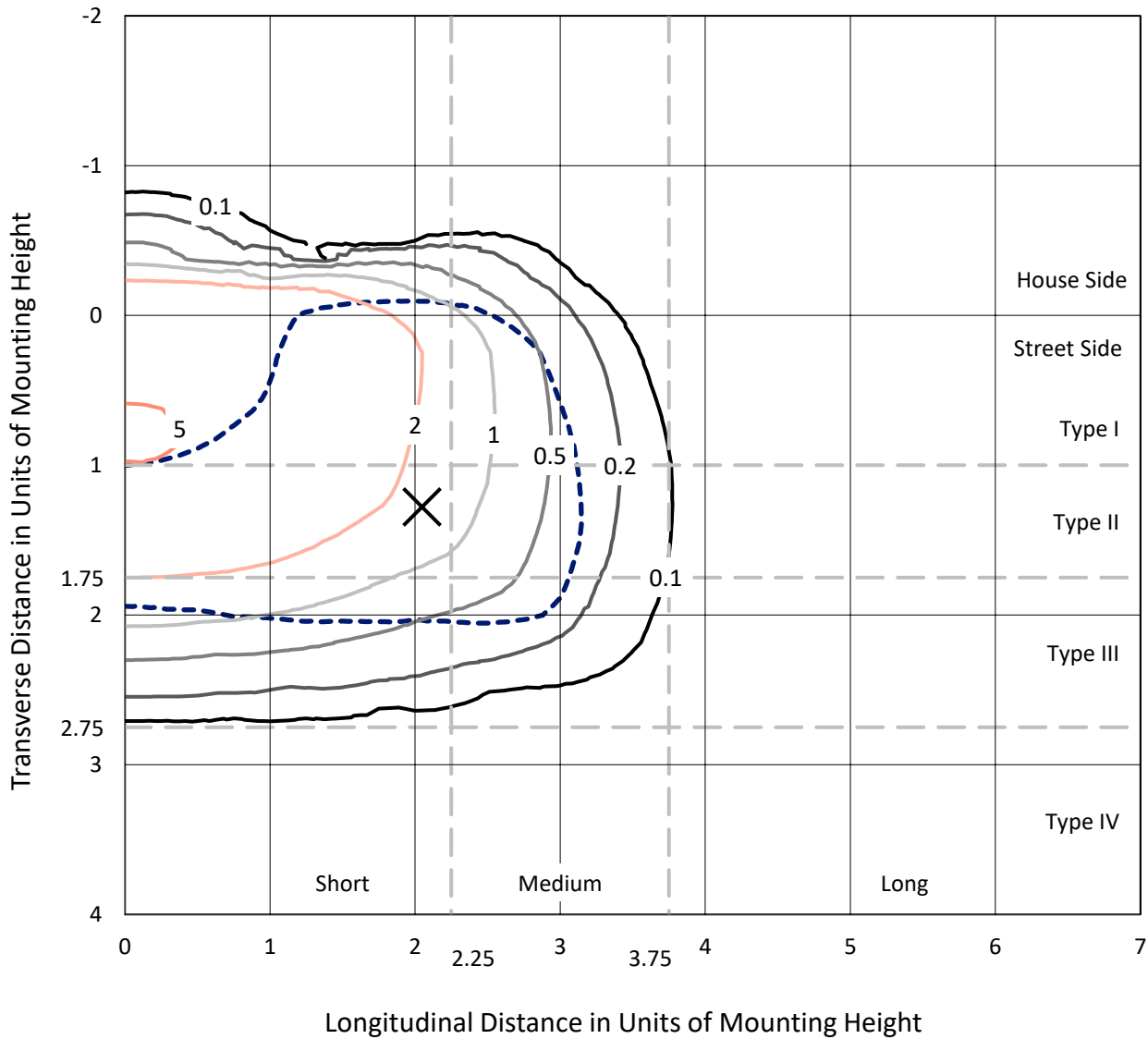
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

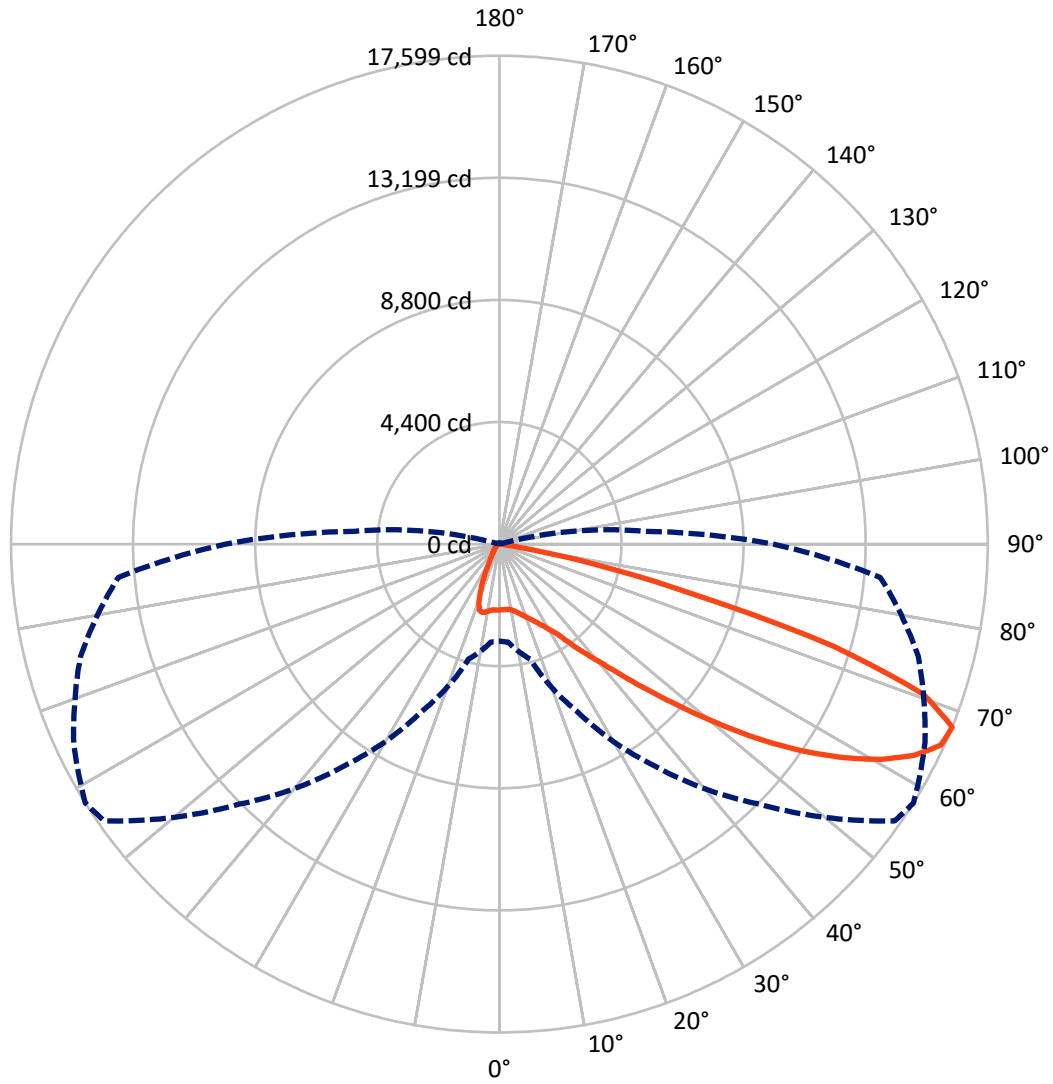
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.1	0.0	2373.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	19379.1	0.0	19379.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	21752.2	0.0	21752.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.0
10°-20°	625.2	2.9
20°-30°	1091.3	5.0
30°-40°	1948.9	9.0
40°-50°	3562.2	16.4
50°-60°	5924.2	27.2
60°-70°	6434.7	29.6
70°-80°	1889.3	8.7
80°-90°	53.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21752.2	100.0
0°-180°	21752.2	100.0

Coefficient of Utilization



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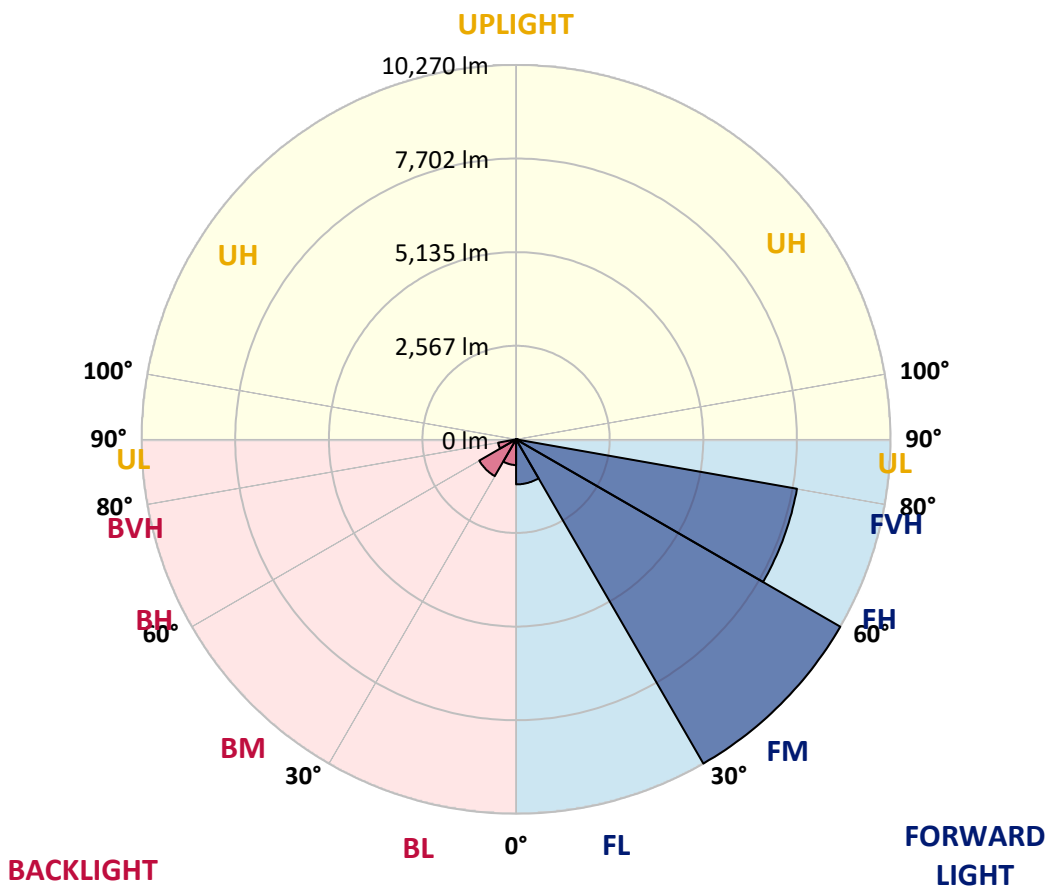
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.2	5.7			
FM (30°-60°)	10269.7	47.2			
FH (60°-80°)	7823.1	36.0			G4/12000
FVH (80°-90°)	51.2	0.2			G1/100
BL (0°-30°)	703.9	3.2	B2/1000		
BM (30°-60°)	1165.6	5.4	B2/2500		
BH (60°-80°)	501.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3
2.5°	2325.7	2321.5	2321.5	2338.5	2340.6	2349.1	2368.2	2370.3	2381.0	2376.7	2361.8
5°	2204.7	2206.8	2219.5	2249.3	2274.8	2306.6	2353.3	2364.0	2387.3	2400.1	2391.6
7.5°	2092.1	2094.2	2113.3	2160.1	2208.9	2272.6	2349.1	2370.3	2417.1	2451.1	2453.2
10°	2049.6	2047.5	2066.6	2119.7	2183.4	2272.6	2383.1	2410.7	2480.8	2540.3	2550.9
12.5°	2062.4	2060.2	2079.4	2128.2	2198.3	2310.9	2442.6	2480.8	2570.0	2661.3	2680.4
15°	2113.3	2111.2	2124.0	2164.3	2240.8	2357.6	2519.0	2576.4	2688.9	2799.4	2829.1
17.5°	2266.3	2255.6	2242.9	2247.2	2291.8	2412.8	2616.7	2686.8	2827.0	2958.7	2984.2
20°	2538.1	2510.5	2476.5	2431.9	2410.7	2493.5	2729.3	2810.0	2979.9	3130.7	3135.0
22.5°	2948.1	2937.4	2858.9	2729.3	2638.0	2640.1	2861.0	2954.4	3162.6	3328.2	3304.9
25°	3519.4	3513.0	3392.0	3179.6	2941.7	2861.0	3028.8	3124.3	3379.2	3555.5	3481.2
27.5°	4228.8	4184.2	4041.9	3755.2	3400.5	3147.7	3241.2	3326.1	3608.6	3774.3	3634.1
30°	4846.9	4849.0	4715.2	4415.7	4016.4	3578.9	3500.3	3574.6	3818.9	3993.0	3823.1
32.5°	5441.6	5460.7	5314.1	5044.4	4606.9	4141.7	3872.0	3884.7	4088.6	4277.7	4071.6
35°	5993.8	6008.7	5906.7	5677.3	5269.5	4730.1	4390.2	4383.9	4494.3	4687.6	4417.8
37.5°	6611.9	6626.8	6526.9	6320.9	5938.6	5403.4	4978.6	4970.1	5014.7	5171.8	4863.9
40°	7270.3	7297.9	7187.5	7013.3	6648.0	6195.6	5662.5	5586.0	5541.4	5726.2	5441.6
42.5°	7937.2	7979.7	7941.5	7767.3	7455.1	7081.3	6550.3	6431.4	6335.8	6567.3	6265.7
45°	8765.6	8816.6	8799.6	8665.8	8423.6	8119.9	7618.6	7480.6	7436.0	7650.5	7291.6
47.5°	9562.1	9617.3	9678.9	9649.2	9477.1	9336.9	8780.5	8701.9	8689.1	8918.5	8362.0
50°	10154.7	10205.6	10441.4	10611.3	10728.1	10698.4	10216.3	10099.4	10080.3	10226.9	9492.0
52.5°	10579.4	10628.3	10953.3	11484.3	11913.3	12146.9	11660.5	11635.1	11531.0	11480.0	10549.7
55°	10908.7	10976.6	11318.6	12121.4	12985.9	13504.1	13200.4	13109.1	12841.5	12548.4	11531.0
57.5°	10974.5	11002.1	11484.3	12567.5	13818.5	14657.5	14657.5	14498.2	13982.0	13576.4	12665.2
60°	10384.0	10469.0	11121.1	12531.4	14175.3	15411.5	15866.0	15755.5	15058.9	14559.7	13756.9
62.5°	9073.6	9169.1	9963.5	11666.9	13818.5	15566.5	16781.4	16764.4	15978.6	15373.2	14661.7
65°	6958.1	7028.2	7720.6	9759.6	12310.5	14969.7	17435.6	17482.3	16704.9	15910.6	14973.9
67.5°	3496.0	3544.9	4292.5	6667.1	9757.5	13251.4	17391.0	17599.1	16925.8	15626.0	13782.4
70°	1221.3	1270.1	1622.7	2861.0	5938.6	10118.5	15887.2	16227.1	15628.1	13338.5	10167.4
72.5°	418.4	441.8	673.3	1062.0	2310.9	5998.1	12081.1	12593.0	11520.4	8954.6	5843.0
75°	237.9	252.8	361.1	575.6	968.5	1973.2	6854.0	7168.4	6716.0	4880.9	2404.3
77.5°	161.4	174.2	225.1	327.1	535.2	635.1	2795.1	3519.4	3069.1	1593.0	613.8
80°	95.6	104.1	138.1	193.3	274.0	246.4	599.0	796.5	1025.9	475.8	184.8
82.5°	44.6	51.0	89.2	127.4	138.1	104.1	176.3	214.5	288.9	233.6	76.5
85°	0.0	0.0	29.7	53.1	51.0	29.7	48.9	53.1	78.6	116.8	29.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	4.2	6.4	12.7	23.4	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3	2370.3
2.5°	2378.8	2364.0	2381.0	2372.5	2381.0	2378.8	2361.8	2351.2	2351.2	2332.1	2325.7
5°	2408.6	2393.7	2398.0	2378.8	2374.6	2364.0	2342.7	2334.2	2334.2	2315.1	2308.7
7.5°	2474.4	2451.1	2446.8	2408.6	2391.6	2361.8	2323.6	2308.7	2306.6	2287.5	2281.1
10°	2578.5	2550.9	2531.8	2482.9	2434.1	2374.6	2293.9	2225.9	2187.7	2136.7	2132.5
12.5°	2705.9	2671.9	2642.2	2567.9	2487.2	2353.3	2115.5	1867.0	1714.0	1593.0	1601.5
15°	2848.2	2816.4	2769.6	2657.1	2491.4	2143.1	1646.1	1263.8	1076.8	977.0	972.8
17.5°	3003.3	2956.6	2880.1	2727.2	2357.6	1637.6	1070.5	756.1	658.4	624.4	615.9
20°	3147.7	3090.4	2994.8	2742.0	1971.0	1108.7	669.0	586.2	569.2	558.6	558.6
22.5°	3300.6	3228.4	3086.1	2627.3	1465.5	709.4	569.2	550.1	537.4	522.5	520.4
25°	3455.7	3362.2	3168.9	2327.9	960.0	558.6	533.1	511.9	488.5	465.1	458.8
27.5°	3587.4	3466.3	3232.7	1881.8	615.9	503.4	486.4	450.3	418.4	392.9	388.7
30°	3744.5	3589.5	3260.3	1376.3	484.3	443.9	418.4	380.2	342.0	316.5	308.0
32.5°	3954.8	3784.9	3217.8	896.3	429.0	390.8	350.5	305.9	267.6	240.0	235.8
35°	4281.9	4080.1	3022.4	571.3	388.7	337.7	288.9	242.1	210.3	189.0	184.8
37.5°	4681.2	4494.3	2701.7	429.0	348.3	293.1	235.8	191.2	167.8	152.9	148.7
40°	5273.8	5012.5	2304.5	375.9	308.0	248.5	193.3	157.2	140.2	127.4	123.2
42.5°	6042.7	5624.2	1847.8	342.0	269.7	208.1	157.2	129.6	114.7	106.2	104.1
45°	6941.1	6221.1	1365.7	308.0	233.6	172.0	129.6	106.2	95.6	89.2	87.1
47.5°	7860.8	6743.6	943.0	271.9	199.7	142.3	108.3	91.3	82.8	74.3	72.2
50°	8842.0	7185.4	643.6	235.8	169.9	116.8	93.5	82.8	72.2	65.8	63.7
52.5°	9562.1	7348.9	448.2	203.9	144.4	99.8	82.8	74.3	65.8	57.3	55.2
55°	10226.9	7344.7	339.8	172.0	123.2	87.1	74.3	65.8	57.3	51.0	48.9
57.5°	10889.5	7287.3	267.6	146.6	106.2	78.6	65.8	57.3	53.1	44.6	42.5
60°	11318.6	7070.7	208.1	123.2	91.3	68.0	57.3	51.0	44.6	38.2	36.1
62.5°	11545.8	6769.1	159.3	97.7	74.3	59.5	51.0	44.6	38.2	31.9	29.7
65°	11237.9	6233.8	125.3	76.5	57.3	51.0	42.5	36.1	29.7	23.4	21.2
67.5°	9872.2	5256.8	97.7	61.6	44.6	38.2	36.1	29.7	21.2	17.0	14.9
70°	6977.2	3600.1	76.5	46.7	34.0	29.7	27.6	23.4	17.0	12.7	10.6
72.5°	3829.5	1816.0	55.2	34.0	25.5	23.4	21.2	19.1	14.9	10.6	10.6
75°	1474.0	499.1	40.4	23.4	17.0	17.0	14.9	14.9	12.7	8.5	8.5
77.5°	384.4	148.7	25.5	14.9	10.6	10.6	10.6	8.5	8.5	6.4	6.4
80°	123.2	48.9	14.9	10.6	8.5	6.4	6.4	4.2	6.4	4.2	4.2
82.5°	40.4	17.0	8.5	8.5	6.4	4.2	4.2	2.1	2.1	0.0	0.0
85°	14.9	8.5	6.4	4.2	4.2	4.2	2.1	0.0	0.0	0.0	0.0
87.5°	8.5	4.2	4.2	4.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)